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By: Nancy Ramos Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Michael G. Walker, Wayne Volkmuth, Tod M. Klingler

Title: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS

Serial No.: To Be Assigned

Filed:

Herewith

Examiner: To Be Assigned

Group Art Unit:

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Commissioner for Patents
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

Accompanying the application is the paper copy of the Sequence Listing as disclosed in the application.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Respectfully submitted,

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 Klingler, Tod M.

<120> DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS

<130> PB-0008-1 CIP

<140> 09/226,994

<141> 1999-01-07

<160> 15

<170> PERL Program

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<223> 3664676CB1

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<211> 585

<212> PRT

<213> Homo sapiens

<220> -

<223> 223163CD1

<400> 14

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Gly Ala Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu
                      20                      25                      30
Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn
                      35                      40                      45
Lys Ser Ile Arg Ile Ile Phe Ser Tyr Val Gln Leu Asp Pro Asp
                      50                      55                      60
Gly Ser Cys Glu Ser Glu Asn Ile Lys Val Phe Asp Gly Thr Ser
                      65                      70                      75
Ser Asn Gly Pro Leu Leu Gly Gln Val Cys Ser Lys Asn Asp Tyr
                      80                      85                      90
Val Pro Val Phe Glu Ser Ser Ser Ser Thr Leu Thr Phe Gln Ile
                      95                      100                     105
Val Thr Asp Ser Ala Arg Ile Gln Arg Thr Val Phe Val Phe Tyr
                      110                     115                     120
Tyr Phe Phe Ser Pro Asn Ile Ser Ile Pro Asn Cys Gly Gly Tyr
                      125                     130                     135
Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser Pro Asn Tyr Pro Lys
                      140                     145                     150
Pro His Pro Glu Leu Ala Tyr Cys Val Trp His Ile Gln Val Glu
                      155                     160                     165
Lys Asp Tyr Lys Ile Lys Leu Asn Phe Lys Glu Ile Phe Leu Glu
                      170                     175                     180
Ile Asp Lys Gln Cys Lys Phe Asp Phe Leu Ala Ile Tyr Asp Gly
                      185                     190                     195
Pro Ser Thr Asn Ser Gly Leu Ile Gly Gln Val Cys Gly Arg Val
                      200                     205                     210
Thr Pro Thr Phe Glu Ser Ser Ser Asn Ser Leu Thr Val Val Leu
                      215                     220                     225
Ser Thr Asp Tyr Ala Asn Ser Tyr Arg Gly Phe Ser Ala Ser Tyr
                      230                     235                     240
Thr Ser Ile Tyr Ala Glu Asn Ile Asn Thr Thr Ser Leu Thr Cys
                      245                     250                     255
Ser Ser Asp Arg Met Arg Val Ile Ile Ser Lys Ser Tyr Leu Glu
                      260                     265                     270
Ala Phe Asn Ser Asn Gly Asn Asn Leu Gln Leu Lys Asp Pro Thr
                      275                     280                     285
Cys Arg Pro Lys Leu Ser Asn Val Val Glu Phe Ser Val Pro Leu

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Asn Gly Cys Gly	290	295	300
Thr Ile Arg Lys Val		Glu Asp Gln Ser Ile Thr	
305		310	315
Tyr Thr Asn Ile	Ile Thr Phe Ser Ala	Ser Ser Thr Ser Glu Val	
320		325	330
Ile Thr Arg Gln	Lys Gln Leu Gln Ile	Ile Val Lys Cys Glu Met	
335		340	345
Gly His Asn Ser	Thr Val Glu Ile Ile	Tyr Ile Thr Glu Asp Asp	
350		355	360
Val Ile Gln Ser	Gln Asn Ala Leu Gly	Lys Tyr Asn Thr Ser Met	
365		370	375
Ala Leu Phe Glu	Ser Asn Ser Phe Glu	Lys Thr Ile Leu Glu Ser	
380		385	390
Pro Tyr Tyr Val	Asp Leu Asn Gln Thr	Leu Phe Val Gln Val Ser	
395		400	405
Leu His Thr Ser	Asp Pro Asn Leu Val	Val Phe Leu Asp Thr Cys	
410		415	420
Arg Ala Ser Pro	Thr Ser Asp Phe Ala	Ser Pro Thr Tyr Asp Leu	
425		430	435
Ile Lys Ser Gly	Cys Ser Arg Asp Glu	Thr Cys Lys Val Tyr Pro	
440		445	450
Leu Phe Gly His	Tyr Gly Arg Phe Gln	Phe Asn Ala Phe Lys Phe	
455		460	465
Leu Arg Ser Met	Ser Ser Val Tyr Leu	Gln Cys Lys Val Leu Ile	
470		475	480
Cys Asp Ser Ser	Asp His Gln Ser Arg	Cys Asn Gln Gly Cys Val	
485		490	495
Ser Arg Ser Lys	Arg Asp Ile Ser Ser	Tyr Lys Trp Lys Thr Asp	
500		505	510
Ser Ile Ile Gly	Pro Ile Arg Leu Lys	Arg Asp Arg Ser Ala Ser	
515		520	525
Gly Asn Ser Gly	Phe Gln His Glu Thr	His Ala Glu Glu Thr Pro	
530		535	540
Asn Gln Pro Phe	Asn Ser Val His Leu	Phe Ser Phe Met Val Leu	
545		550	555
Ala Leu Asn Val	Val Thr Val Ala Thr	Ile Thr Val Arg His Phe	
560		565	570
Val Asn Gln Arg	Ala Asp Tyr Lys Tyr	Gln Lys Leu Gln Asn Tyr	
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<212> PRT

<213> Homo sapiens

<220> -

<223> 2774542CD1

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Val Gly Gly Arg	Trp Arg Val Ser Trp	Tyr Glu Arg Phe Val Gln
20		25
Pro Cys Leu Val	Glu Leu Leu Gly Ser	Ala Leu Phe Ile Phe Ile
35		40
Gly Cys Leu Ser	Val Ile Glu Asn Gly	Thr Asp Thr Gly Leu Leu
50		55
Gln Pro Ala Leu	Ala His Gly Leu Ala	Leu Gly Leu Val Ile Ala

	65		70		75
Thr Leu Gly Asn Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser					
	80		85		90
Leu Ala Ala Met Leu Ile Gly Gly Leu Asn Leu Val Met Leu Leu					
	95		100		105
Pro Tyr Trp Val Ser Gln Leu Leu Gly Gly Met Leu Gly Ala Ala					
	110		115		120
Leu Ala Lys Ala Val Ser Pro Glu Glu Arg Phe Trp Asn Ala Ser					
	125		130		135
Gly Ala Ala Phe Val Thr Val Gln Glu Gln Gly Gln Val Ala Gly					
	140		145		150
Ala Leu Val Ala Glu Ile Ile Leu Thr Thr Leu Leu Ala Leu Ala					
	155		160		165
Val Cys Met Gly Ala Ile Asn Glu Lys Thr Lys Gly Pro Leu Ala					
	170		175		180
Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp Ile Leu Ala Gly					
	185		190		195
Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg Ala Phe Gly					
	200		205		210
Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile Tyr Trp					
	215		220		225
Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile Arg					
	230		235		240
Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Arg					
	245		250		255